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APPLICATION NO.			FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION		<u>.</u>
10/084,556			Valery G. Kagan	6376-14	1195	_
7590 07/08/2003						
PMB 307 800 Village Walk				EXAMINER		
Guilford, CT 0				KASTLER, SCOTT R		
				ART UNIT	PAPER NUMBER]
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				DATE MAILED: 07/08/2003	7	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/084,556			Application N .	Applicant(s)	
Peri of 1 r reply As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extentions of them may be suitable under the proteins of 37 CFR 1136(a). In no event, however, may a reply be timely filed after 50 (b) MONTH's from the making date of this communication. If NO period for may be a possible under the proteins of 37 CFR 1136(a). In no event, however, may a reply be timely filed after 50 (b) MONTH's from the making date of this communication. If NO period for reply is a possible under the proteins of 37 CFR 1136(a). In no event, however, may a reply be timely filed on the 50 (b) MONTH's from the making date of this communication. Provided the proteins of the filed above, the making date of this communication and the provided and the proteins of the filed and the set of this communication. Any register with the set of underded proteins after the making date of this communication, even if timely filed, may reduce any. Status 1) Responsive to communication(s) filed on this proteins are provided any. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x pare Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 47-70 is/are pending in the application. 4a) Of the above claim(s) is independent of the application. 4a) Claim(s) 1 and 47-70 is/are pending in the application. 4b) Claim(s) 1 and 47-70 is/are rejected. 7c) Claim(s) is set of the application is objected to by the Examiner. Applicant may not request that any objected to. 3) Claim(s) 165-67,69 and 70 is/are rejected. 7) The drawing(s) filed on 26 Februery 2002 (s/are: a)(S) accepted or b) objected to by the Examiner. 11) The proposed drawing correction filed on is: a) application and application is objected to by the Examiner. 12) The proposed drawing correction filed on is: a) application is made	Offic	A	10/084,556	KAGAN, VALERY G.	
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 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 				on No	
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application a) ☐ The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 	3.☐ Copie ap	s of the certified copies of the priorit	y documents have been received	d in this National Stage	
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Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) Interview Summary (PTO-413) Paper No(s) Other:	Notice of References Notice of Draftspersor	n's Patent Drawing Review (PTO-948)	E\	(PTO-413) Paper No(s) atent Application (PTO-152)	

Application/Control Number: 10/084,556

Art Unit: 1742

Claim Objections

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 61-84, added by the pre-amendment filed on 6-22-2003 have been renumbered as claims 47-70 respectively.

Claims 65 and 66 are objected to because of the following informalities: The above claims are informal because while claim 65 has been written as an independent claim (it depends on no other claim) it seems to have been intended to depend on some other independent method or apparatus claim (claim 65 refers to components not listed in claim 65). For examination purposes, it was assumed that claim 65 was intended to depend from the first independent claim (claim 1) and was examined on the art in this light since when read as an independent claim the claims 65 and 66 make no sense. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/084,556

Art Unit: 1742

Claims 69 and 70 are rejected under 35 U.S.C. 102(b) as being anticipated by Ross et al Ross et al teaches a conduit (the nozzle structure of figure 6 for example) which is under at least atmospheric pressure, and thereby "pressurized", formed of a conduit (14) made of either graphite or a refractory ceramic (see col. 4 lines 53-60 for example), shrouded by a supporting material which is "rugged" (16), where a non-electrically conductive material (50) is interposed between the conduit (14) and the supporting material (16), thereby showing all aspects of the above claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 65-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art of the instant disclosure in view of Kagan et al'036. The admitted prior art of the instant disclosure, when describing the systems of either of Blake or Watt, as described in the instant specification at page 3 for example, teaches a molten metal conduit and flow control device comprising electrodes and permanent magnets showing all aspects of the above claims except for the use of "neo-magnets" as the permanent magnet material. Kagan et al'036 teaches, at column 8, lines 31-67 for example, that neo-magnets of either cobalt-samarium or neodymium-iron-boron type are known as permanent magnets that are desired for metallurgical

Application/Control Number: 10/084,556

Art Unit: 1742

applications due to their superior strength. Because the admitted prior art of the instant disclosure would also desire an improved magnet for their required magnet, motivation to employ the neomagnets taught by Kagan et al'036 to impart improved performance, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

Allowable Subject Matter

Claims 47-64 and 68 are allowed at least because none of the cited or applied prior art shows or fairly suggests the employment of neo-magnets in continuous casting or other molten metal flow control processes and devices in the instantly claimed arrangements.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Each of Kagan'743 B1 (the parent of the instant application) and Kagan et al'223 are also cited as further examples of prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (703) 308-2506. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (703) 308-3050. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Art Unit: 1742

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

Scott Kastler Primary Examiner Art Unit 1742

sk July 3, 2003